

North Carolina Childhood Blood Lead Surveillance Data

The "**Target Population**" for children ages 1 and 2 is the sum of the number of live births from the previous two calendar years (Source: NC Vital Statistics data, State Center for Health Statistics).

"**Number Tested**" is an unduplicated count of children with blood lead samples collected during the calendar year (Source: NCLEAD, NC Childhood Blood Lead Surveillance System, Children's Environmental Health). "**Percent (%) Tested**" is the number of children tested divided by the target population and multiplied by 100.

Starting July 5, 2012, the CDC lowered its reference value to 5 micrograms per deciliter ($\mu\text{g}/\text{dL}$). Therefore, surveillance tables for 2013 and later include a column for children tested with at least one result $\geq 5 \mu\text{g}/\text{dL}$, in addition to the column for children confirmed at 5-9 $\mu\text{g}/\text{dL}$.

"**% Tested $\geq 5 \mu\text{g}/\text{dL}$** " is the number of children tested with at least one result $\geq 5 \mu\text{g}/\text{dL}$ divided by the total number tested and multiplied by 100.

Starting in 2013, children are counted as being "tested" for lead poisoning until they are confirmed to have a lead level ≥ 5 micrograms per deciliter ($\mu\text{g}/\text{dL}$). After a child has a "**confirmed**" lead level, the child is no longer counted as "**tested**" during subsequent years. Blood lead tests after lead level confirmation are considered "**follow-up**" test results and are not counted in the surveillance tables.

Classification is based on the lower of the two test results. Children are counted only in the column of the highest level in which they were confirmed during the calendar year; therefore, the categories "**Confirmed 5-9 $\mu\text{g}/\text{dL}$** ," "**Confirmed 10-19 $\mu\text{g}/\text{dL}$** ," and "**Confirmed $\geq 20 \mu\text{g}/\text{dL}$** " are mutually exclusive. Children are counted as having "**confirmed**" lead levels when they have two consecutive blood lead test results $\geq 5 \mu\text{g}/\text{dL}$ within a six-month period, up until December 31, 2017. The second test result must be a diagnostic test, preferably a venous sample, sent to an outside reference laboratory for analysis.

The numbers reported for North Carolina Childhood Blood Lead Surveillance Data may vary somewhat from previous reports due to ongoing improvements in data quality and receipt of previously unreported test results from laboratories.

2016 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

County	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
	Target Population*	Number Tested**	Percent (%) Tested	Number $\geq 5 \mu\text{g/dL}$	% Tested $\geq 5 \mu\text{g/dL}$	Number Tested**	Confirmed		
							5-9	10-19	≥ 20
ALAMANCE	3,549	1,924	54.2	31	1.6	2,221	7	2	1
ALEXANDER	694	419	60.4	8	1.9	488			1
ALLEGHANY	203	114	56.2	2	1.8	128	1		
ANSON	467	205	43.9	1	0.5	307			
ASHE	437	280	64.1	6	2.1	390	2		1
AVERY	261	167	64.0			187			
BEAUFORT	933	610	65.4	11	1.8	656	5	2	
BERTIE	333	225	67.6	8	3.6	267	2		
BLADEN	714	450	63.0	4	0.9	486	1	1	
BRUNSWICK	2,146	1,135	52.9	15	1.3	1,390	3	1	
BUNCOMBE	5,201	2,895	55.7	47	1.6	3,341	11	2	
BURKE	1,786	1,159	64.9	23	2.0	1,258	6	1	2
CABARRUS	4,793	2,099	43.8	24	1.1	2,417	7	1	1
CALDWELL	1,628	1,175	72.2	14	1.2	1,303	2	1	
CAMDEN	188	90	47.9	1	1.1	96			
CARTERET	1,193	785	65.8	9	1.1	814	1		
CASWELL	401	226	56.4	13	5.8	246	4		
CATAWBA	3,560	2,235	62.8	24	1.1	2,487	3	1	
CHATHAM	1,275	714	56.0	13	1.8	787	4	3	
CHEROKEE	432	305	70.6	2	0.7	356			
CHOWAN	290	174	60.0	9	5.2	190	4		
CLAY	161	83	51.6	2	2.4	107			
CLEVELAND	2,139	1,136	53.1	25	2.2	1,570	7	2	1
COLUMBUS	1,208	689	57.0	19	2.8	901	6	1	
CRAVEN	2,954	1,821	61.6	31	1.7	2,059	10	1	1
CUMBERLAND	11,113	4,206	37.8	53	1.3	4,699	11	1	
CURRITUCK	520	164	31.5	4	2.4	185	1		
DARE	699	293	41.9	7	2.4	310	2	1	
DAVIDSON	3,505	2,355	67.2	34	1.4	2,522	5	4	1
DAVIE	749	515	68.8	13	2.5	542		1	
DUPLIN	1,520	882	58.0	15	1.7	1,061	6		1
DURHAM	8,734	4,317	49.4	49	1.1	4,900	14	3	
EDGECOMBE	1,239	860	69.4	25	2.9	979	4	1	
FORSYTH	8,888	5,949	66.9	89	1.5	6,387	31	6	
FRANKLIN	1,389	766	55.1	13	1.7	841	4		1
GASTON	5,058	2,205	43.6	30	1.4	2,410	7	2	1
GATES	213	96	45.1	1	1.0	116			
GRAHAM	167	122	73.1	5	4.1	145		2	
GRANVILLE	1,131	518	45.8	9	1.7	584	2	1	
GREENE	419	249	59.4	5	2.0	308	1	1	
GUILFORD	12,180	9,417	77.3	149	1.6	10,219	31	12	1
HALIFAX	1,167	863	74.0	47	5.4	939	12		1
HARNETT	3,785	1,827	48.3	46	2.5	2,202	9		1
HAYWOOD	1,159	790	68.2	18	2.3	875	1	1	
HENDERSON	2,179	1,242	57.0	22	1.8	1,448	3		
HERTFORD	462	341	73.8	7	2.1	382			
HOKE	1,904	756	39.7	14	1.9	852	5	1	1
HYDE	86	54	62.8			63			
IREDELL	3,706	1,943	52.4	27	1.4	2,135	6	1	
JACKSON	799	455	56.9	12	2.6	491	4		
JOHNSTON	4,554	2,208	48.5	39	1.8	2,475	6	2	

*Target Population is based on the sum of live births in 2014 and 2015.

Prepared by Children's Environmental Health
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2016 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

County	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
	Target Population*	Number Tested**	Percent (%) Tested	Number ≥ 5 µg/dL	% Tested ≥ 5 µg/dL	Number Tested**	Confirmed 5-9	Confirmed 10-19	Confirmed ≥ 20
JONES	195	126	64.6	1	0.8	142	1		
LEE	1,513	971	64.2	18	1.9	1,170	1	1	
LENOIR	1,314	969	73.7	29	3.0	1,223	9	7	2
LINCOLN	1,608	755	47.0	8	1.1	919	2	1	
MACON	699	440	62.9	4	0.9	478	1		
MADISON	430	234	54.4	8	3.4	286		1	
MARTIN	498	311	62.4	6	1.9	394	2		1
MCDOWELL	936	504	53.8	7	1.4	582	1	1	
MECKLENBURG	29,260	9,185	31.4	86	0.9	11,111	15	11	2
MITCHELL	293	157	53.6	4	2.5	197			
MONTGOMERY	634	528	83.3	15	2.8	637	8		
MOORE	2,081	1,329	63.9	22	1.7	1,454	8		1
NASH	2,087	1,669	80.0	37	2.2	1,840	6	4	1
NEW HANOVER	4,594	2,832	61.6	35	1.2	3,170	14	6	
NORTHAMPTON	342	241	70.5	6	2.5	282	1		
ONslow	8,540	2,746	32.2	28	1.0	3,370	2	1	2
ORANGE	2,422	1,334	55.1	21	1.6	1,448	3	2	
PAMLICO	175	125	71.4	1	0.8	145			
PASQUOTANK	1,029	676	65.7	12	1.8	745	2	1	2
PENDER	1,249	616	49.3	6	1.0	771	3		
PERQUIMANS	236	142	60.2	3	2.1	153		1	
PERSON	838	367	43.8	7	1.9	420			2
PITT	4,288	2,132	49.7	12	0.6	2,361	1		1
POLK	296	103	34.8	2	1.9	145	4		
RANDOLPH	3,161	2,068	65.4	43	2.1	2,318	15	2	
RICHMOND	1,061	755	71.2	21	2.8	895	3		
ROBESON	3,590	2,245	62.5	46	2.0	2,542	6	5	2
ROCKINGHAM	1,868	1,013	54.2	31	3.1	1,146	6	1	1
ROWAN	3,154	1,533	48.6	37	2.4	1,768	15	3	1
RUTHERFORD	1,353	456	33.7	9	2.0	730	1	1	
SAMPSON	1,672	1,300	77.8	25	1.9	1,416	10	2	
SCOTLAND	883	539	61.0	4	0.7	618	1	1	
STANLY	1,396	1,083	77.6	31	2.9	1,158	6	4	
STOKES	813	537	66.1	6	1.1	570	1		
SURRY	1,508	952	63.1	32	3.4	1,049	5		1
SWAIN	419	230	54.9	4	1.7	250			
TRANSYLVANIA	563	385	68.4	4	1.0	415	1		1
TYRRELL	80	55	68.8	4	7.3	61	1		
UNION	4,737	1,685	35.6	27	1.6	2,224	14	1	
VANCE	1,101	571	51.9	15	2.6	699	2	1	1
WAKE	25,502	10,666	41.8	149	1.4	12,230	40	10	1
WARREN	384	255	66.4	4	1.6	305			
WASHINGTON	235	143	60.9	8	5.6	173	1	1	
WATAUGA	725	498	68.7	6	1.2	565	6		
WAYNE	3,347	2,212	66.1	32	1.4	2,562	13	2	
WILKES	1,405	896	63.8	40	4.5	947	8		1
WILSON	1,907	1,436	75.3	35	2.4	1,509	6	4	1
YADKIN	727	435	59.8	9	2.1	502	2		
YANCEY	355	116	32.7	1	0.9	162			
STATE	241,774	125,064	51.7	2,076	1.7	142,779	498	134	40

*Target Population is based on the sum of live births in 2014 and 2015.

**307 children tested were unable to be assigned to a county due to missing address.

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